

FIG. 1

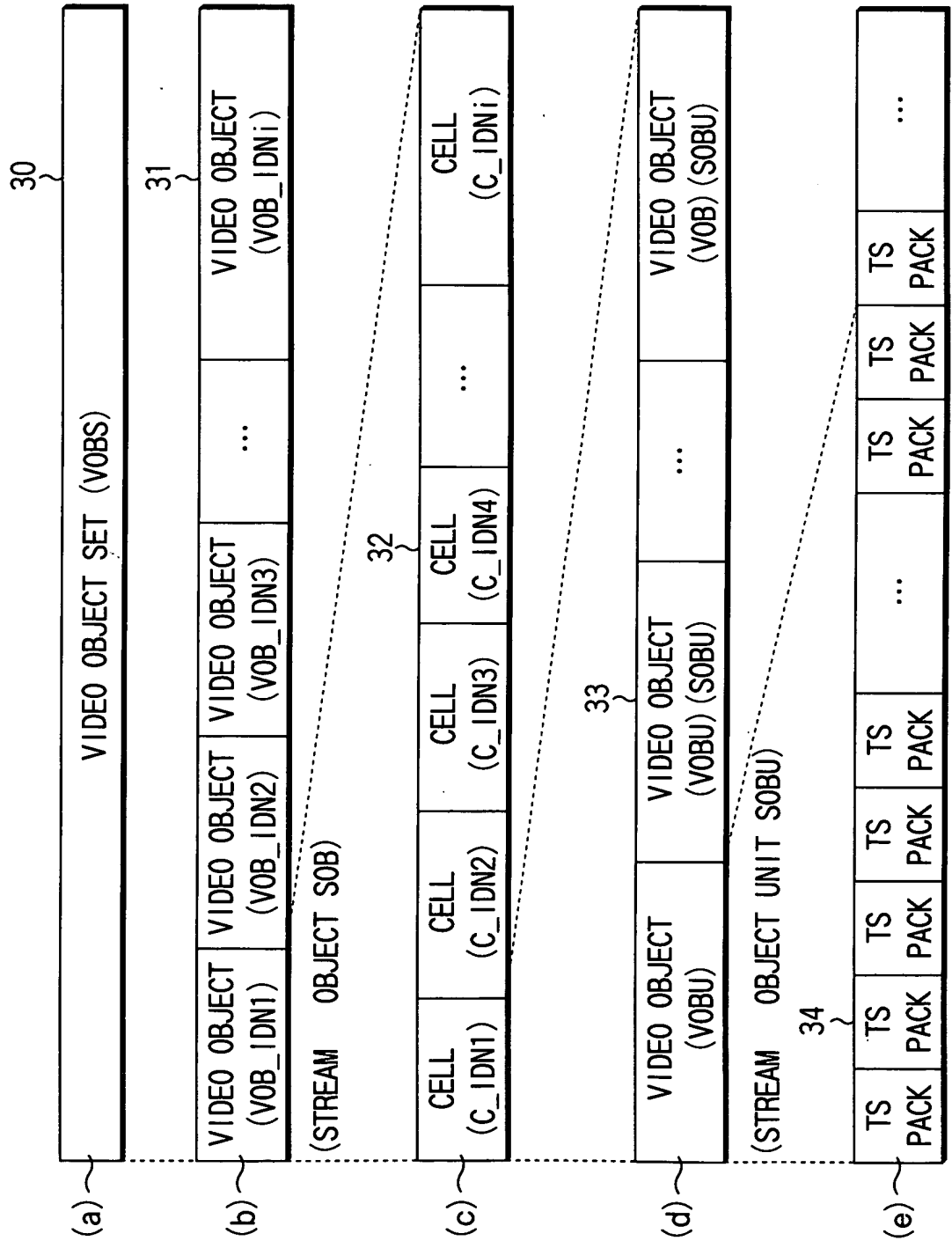
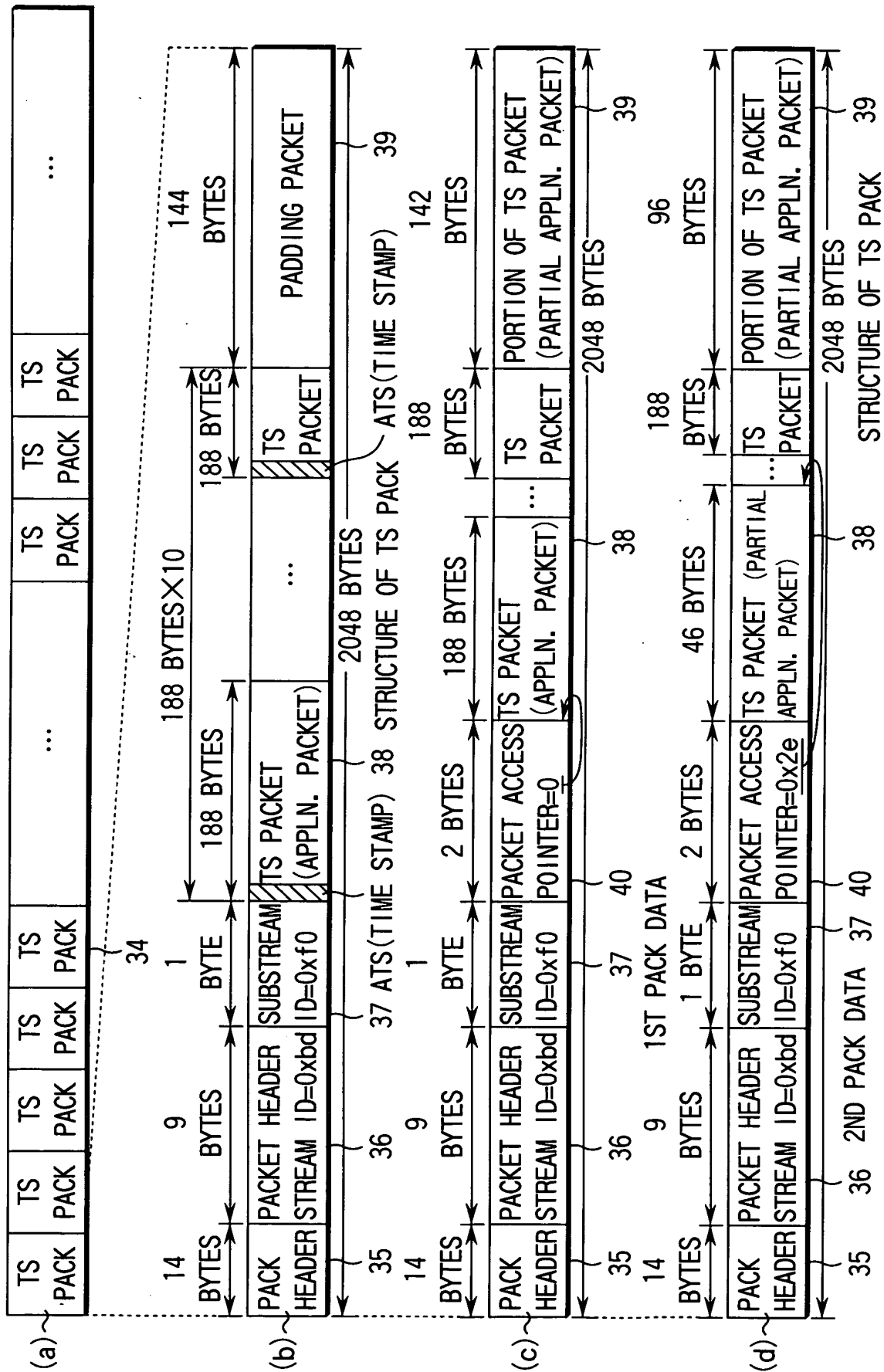


FIG.2



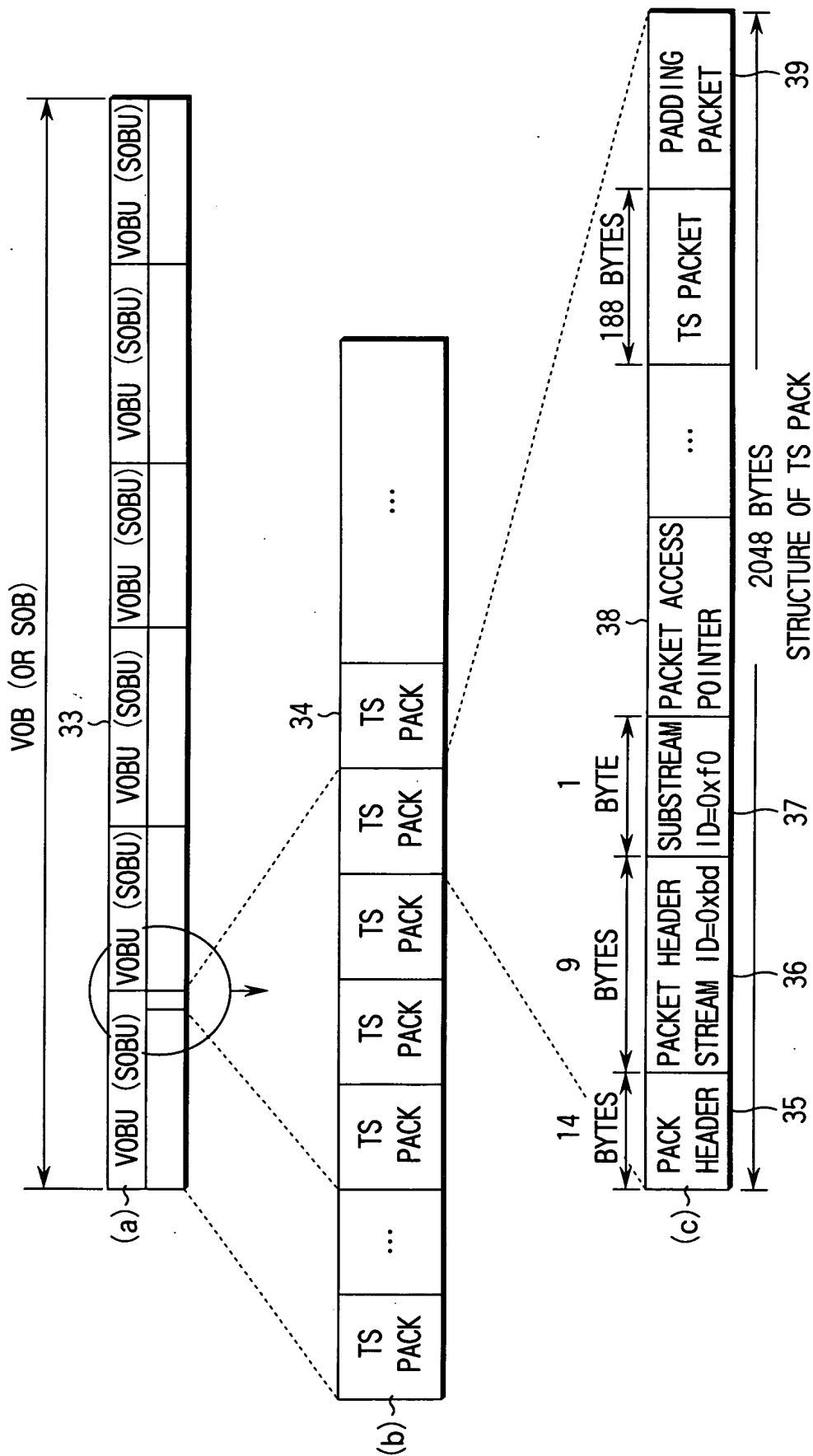
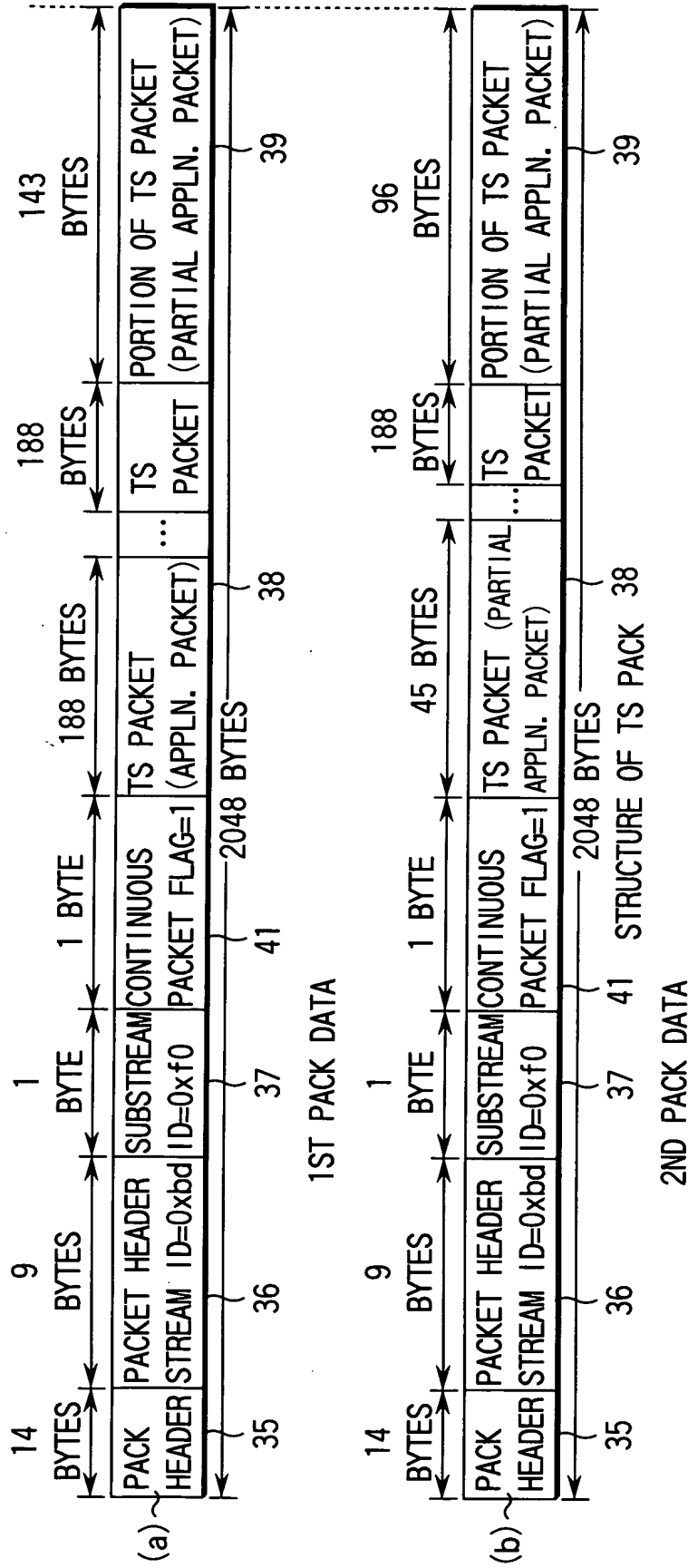
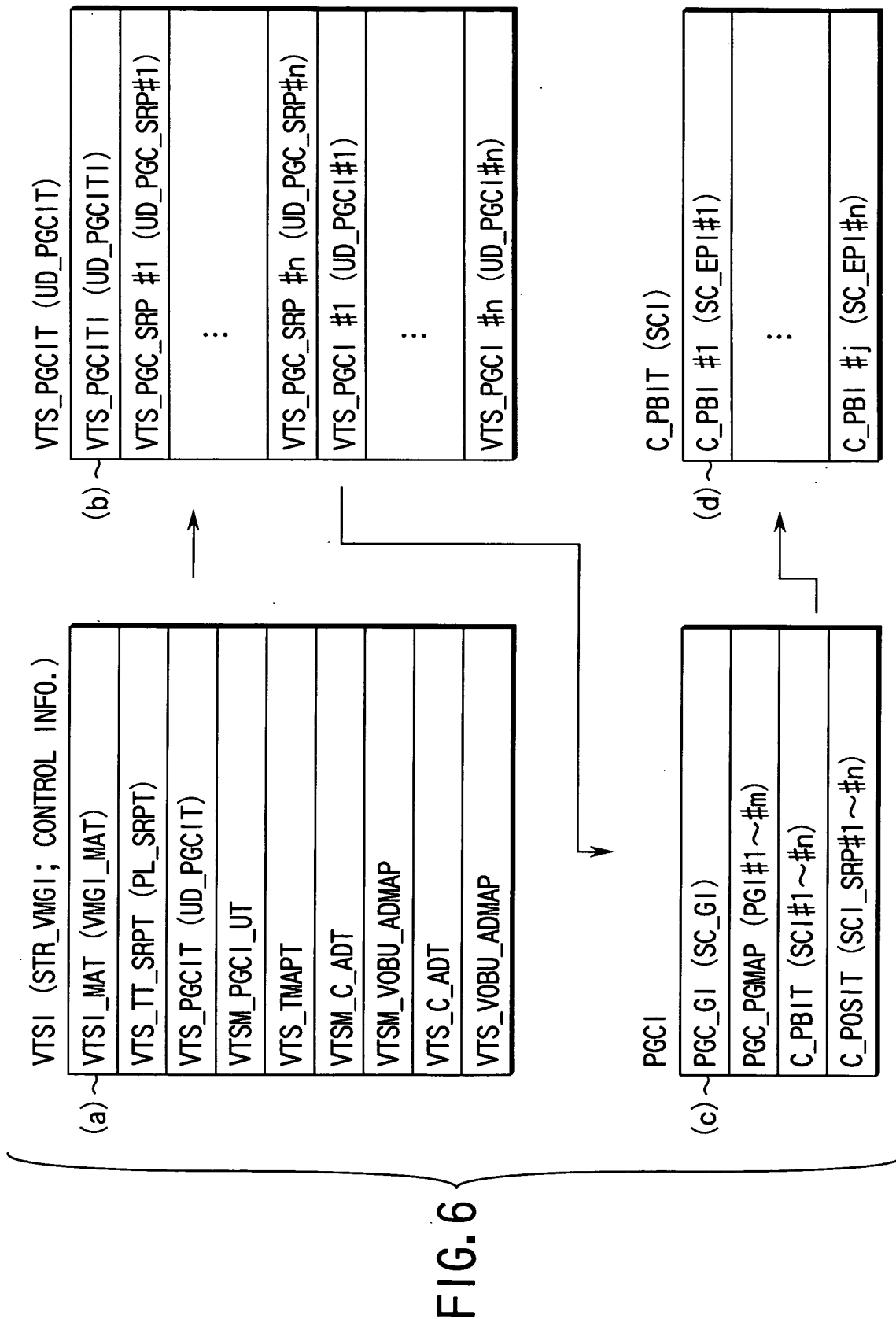


FIG. 4



IF CONTINUOUS PACKET FLAG=1, TS PACKET EXTENDS
ACROSS NEXT PACK (FROM 39 OF (a) TO 38 OF (b))

FIG.5



PGC_GI (SC_GI)

	CONTENTS
(a) PGC_CNT	NUMBER OF PROGRAMS, NUMBER OF CELLS
PGC_TRS_TM	RECORDING TIME PER PGC
SUPPORT INFO	SUPPORT INFORMATION (DETAILS ARE LISTED BELOW)
PGC_PGMAP_SA	START ADDRESS OF PROGRAM MAP
C_PBIT_SA	START ADDRESS OF C_PBIT
C_POSIT_SA	START ADDRESS OF C_POSIT
ARCHIVE FLAG (C_TY1 & TE)	ERASE INHIBITION FLAG 0: FREE, 1: SAVE PERMANENTLY
SC_EPI_Ns	NUMBER OF ENTRY POINT INFORMATION
SOB_N	STREAM OBJECT NUMBER
SC_S_APAT	STREAM CELL START APAT
SC_E_APAT	STREAM CELL END APAT
if (TE=='10b') {	
ERA_S_APAT	ERASE START APAT
ERA_E_APAT	ERASE END APAT

	b7	b5	b4	b3	b2	b1	b0
(b) IDENTIFICATION CODE OF STB THAT RECORDED DATA	SCD SUPPORT	PCR SUPPORT	PAT, PMT SUPPORT	UNIT START INDICATOR SUPPORT	RANDOM ACCESS INDICATOR SUPPORT		

RANDOM ACCESS
INDICATOR SUPPORT FLAG
0b...NOT SUPPORTED,
1b...SUPPORTED

UNIT START INDICATOR
SUPPORT FLAG
0b...NOT SUPPORTED,
1b...SUPPORTED

PAT, PMT SUPPORT FLAG
0b...NOT SUPPORTED,
1b...SUPPORTED

PCR SUPPORT FLAG
0b...NOT SUPPORTED,
1b...SUPPORTED

SCD SUPPORT FLAG
0b...NOT SUPPORTED,
1b...SUPPORTED

PCR=PRESENTATION CLOCK
REFERENCE

SCD=SPLICE COUNTDOWN

STB IDENTIFICATION CODE
001:STB OF BS DIGITAL BROADCAST
010:Ver2 STB OF DirecTV
011:Ver1 STB OF SKY PERFECT TV
C_TY1...'010b' SHALL BE DESCRIBED
FOR ALL STREAM CELLS
TE...'00b':THIS CELL IS IN THE
"NORMAL" STATE
'01b':THIS CELL IS IN "TEMPORARILY
ERASED" STATE; AND THIS CELL STARTS
AFTER THE FIRST APPLICATION PACKET
OF A SOBU AND ENDS BEFORE THE LAST
APPLICATION PACKET OF THE SAME SOBU
'10b':THIS CELL IS IN "TEMPORARILY
ERASED" STATE; AND THIS CELL
CONTAINS AT LEAST ONE SOBU
BORDER (FIRST OR LAST
APPLICATION PACKET OF A
SOBU). ERA_S_APAT AND
ERA_E_APAT EXIT FOR THIS CELL

FIG. 7

C_PBI (SCI)

RBP		CONTENTS	NUMBER OF BYTES
0 TO 0	C_CAT (C_TY)	CELL TYPE 02: STREAMER CELL	
1 TO 4	C_ARLTM	STC VALUE OR PCR UPON RECORDING HEAD OF CELL OF INTEREST	
5 TO 8	C_FVOBU_SA	START ADDRESS OF CELL	
9 TO 12	C_LVOBU_SA	START ADDRESS OF LAST VOB OF CELL	
13 TO 16	C_LVOBU_EA	END ADDRESS OF LAST VOB OF CELL	
17 TO 18	TS PACKET LENGTH	TS PACKET LENGTH: NORMAL: 0xbc	
19 TO 22	REFPIC_Ns (AU_Ns)	NUMBER OF I-PICTURES	
23 TO 26	REFPIC_SA_#1 (AUSM)	START ADDRESS OF I-PICTURE #1	
27 TO 30	REFPIC_EA_#1 (AUEM)	END ADDRESS OF I-PICTURE #1	
	:		
23+(n-1) X 8	REFPIC_SA_#n (AUSM)	START ADDRESS OF I-PICTURE #n	
27+(n-1) X 8	REFPIC_EA_#n (AUEM)	END ADDRESS OF I-PICTURE #n	
	TOTAL		30+(n-1) X 8

REFPIC_Ns: NUMBER OF I-PICTURES ("0" IF NO RANDOM ACCESS INDICATOR IS AVAILABLE)

AUD

REFPIC_SA#n: ADDRESS OF TS PACK INCLUDING FIRST TS PACKET OF I-PICTURE #n

(TS PACK WITH ACTIVE RANDOM ACCESS INDICATOR)

REFPIC_EA#n: ADDRESS OF TS PACK INCLUDING LAST TS PACKET OF I-PICTURE #n

(TS PACK WITH ACTIVE UNIT START INDICATOR)

("0" IF NO UNIT START INDICATOR IS AVAILABLE)

FIG. 8

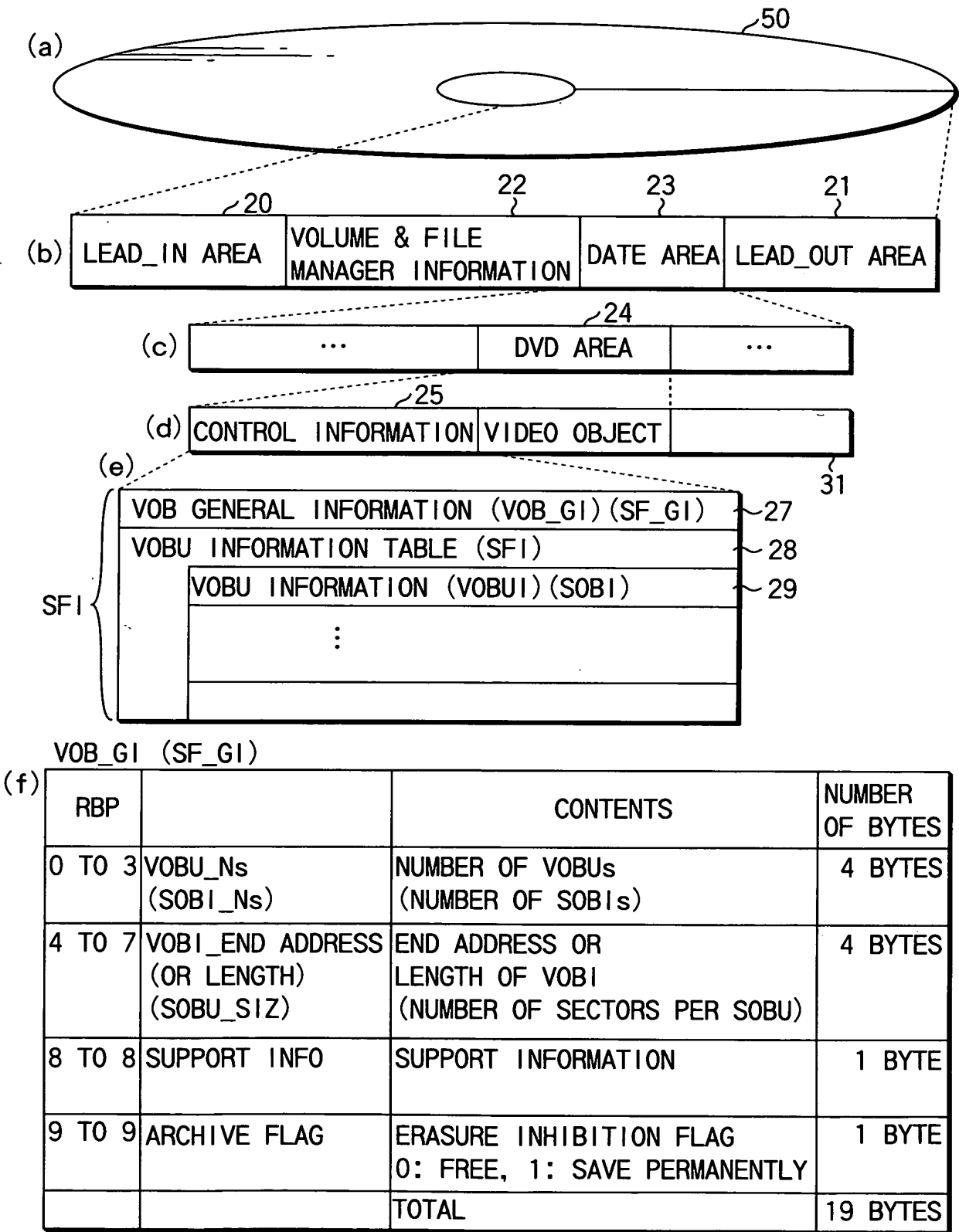


FIG. 9

VOBU1 (SOBI)

RBP		CONTENTS	NUMBER OF BYTES
0 TO 3	VOBU START ADDRESS	START ADDRESS OF VOB	
4 TO 7	VOBU END ADDRESS (OR LENGTH)	END ADDRESS OR LENGTH OF VOB	
8 TO 11	VOBU_RECTM	STC VALUE OR PCR UPON RECORDING HEAD OF VOB OF INTEREST	
12 TO 13	TS PACKET LENGTH	TS PACKET LENGTH: NORMAL: 0xbc	
14 TO 17	REFPIC_Ns (AU_Ns)	NUMBER OF I-PICTURES	
18 TO 21	REFPIC_SA_#1 (AUSM)	START ADDRESS OF I-PICTURE #1	
22 TO 25	REFPIC_EA_#1 (AUEM)	END ADDRESS OF I-PICTURE #1	
	:		
16+(n-1)X8	REFPIC_SA_#n (AUSM)	START ADDRESS OF I-PICTURE #n	
20+(n-1)X8	REFPIC_EA_#n (AUEM)	END ADDRESS OF I-PICTURE #n	
	TOTAL		25+(n-1)X8

REFPIC_Ns: NUMBER OF I-PICTURES ("0" IF NO RANDOM ACCESS INDICATOR IS AVAILABLE)

AUD REFPIC_SA#n: ADDRESS OF TS PACK INCLUDING FIRST TS PACKET OF I-PICTURE #n
(TS PACK WITH ACTIVE RANDOM ACCESS INDICATOR)

REFPIC_EA#n: ADDRESS OF TS PACK INCLUDING LAST TS PACKET OF I-PICTURE #n

(TS PACK WITH ACTIVE UNIT START INDICATOR)

("0" IF NO UNIT START INDICATOR IS AVAILABLE)

FIG.10

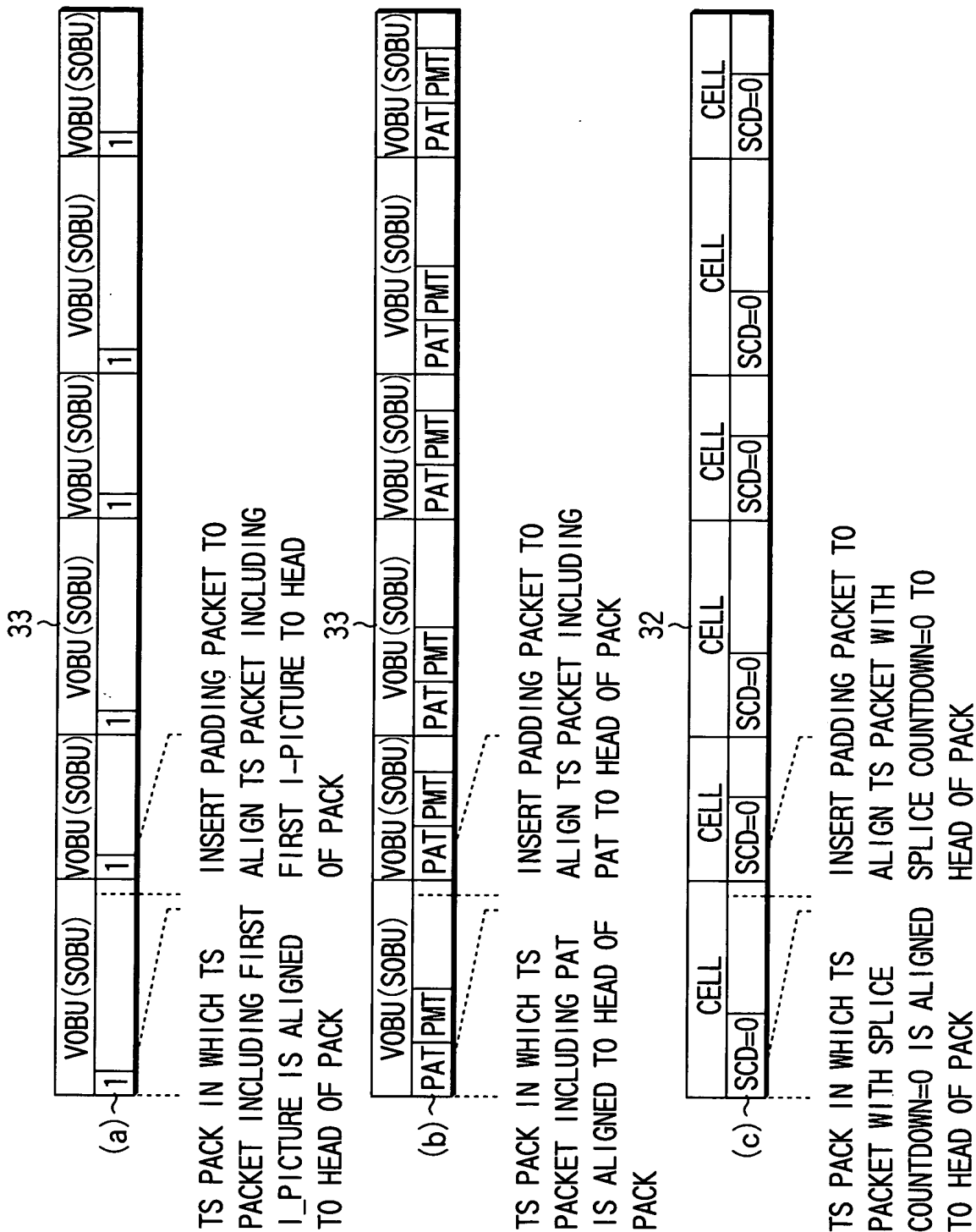


FIG. 11

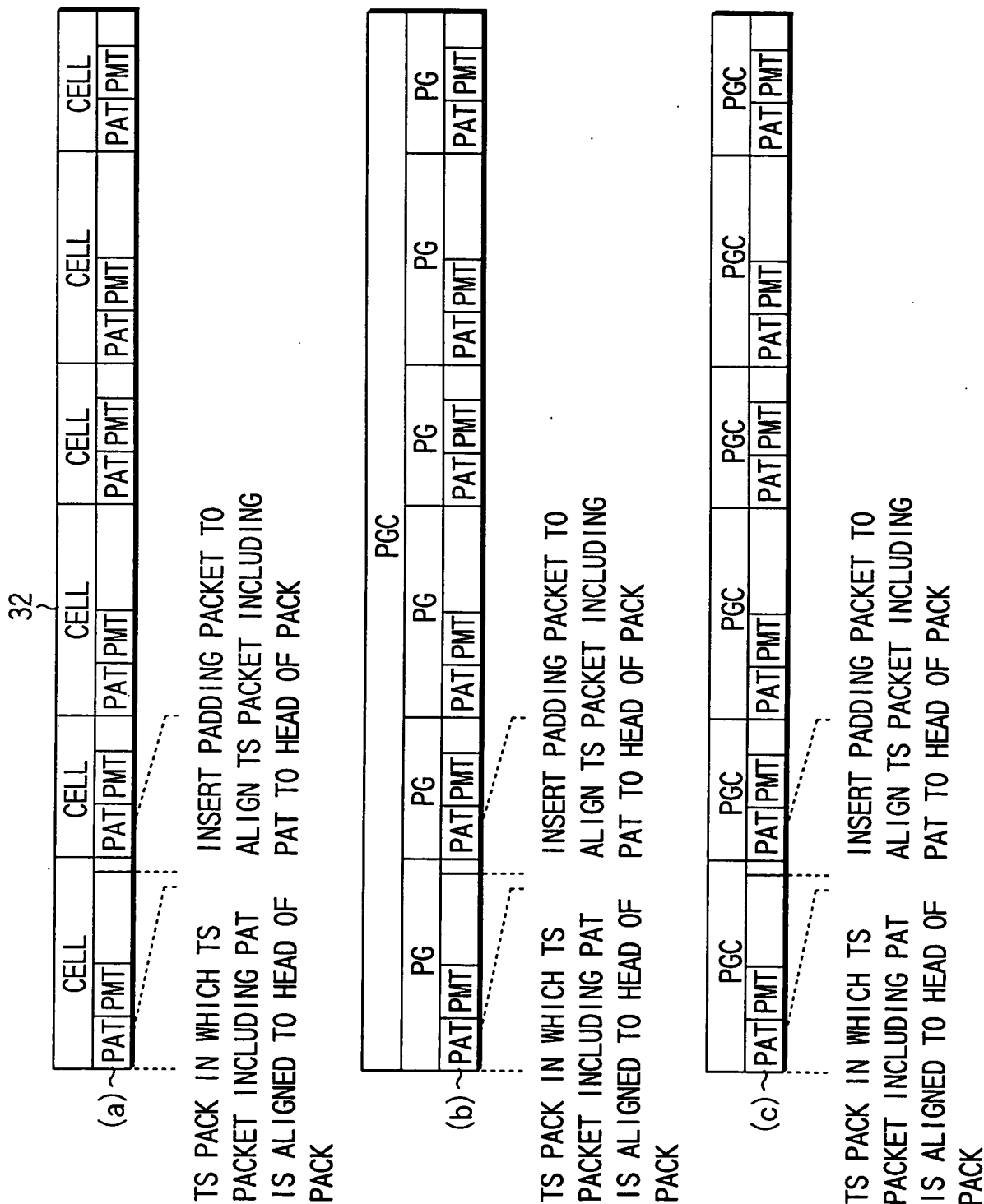


FIG.12

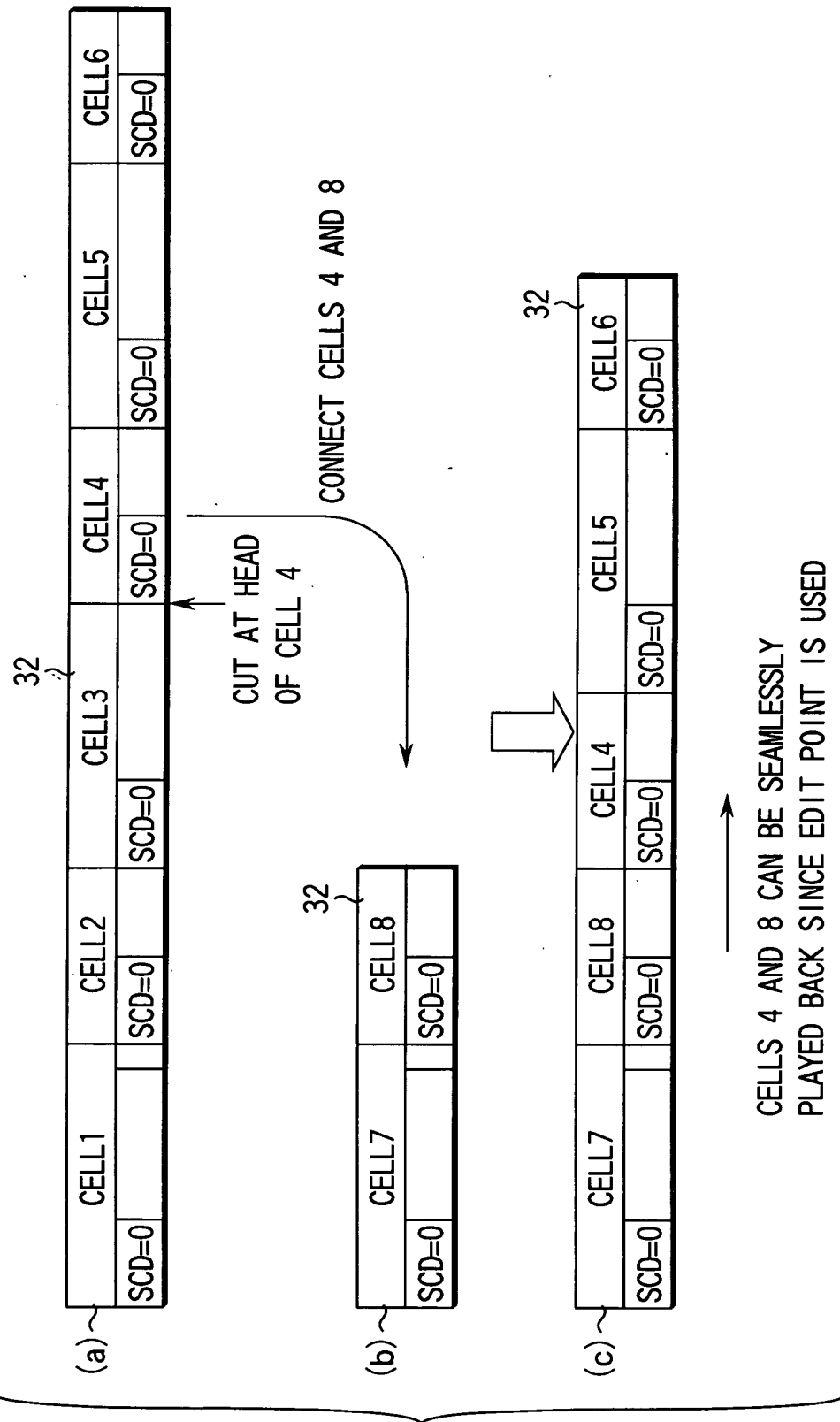


FIG. 13



FIG. 14

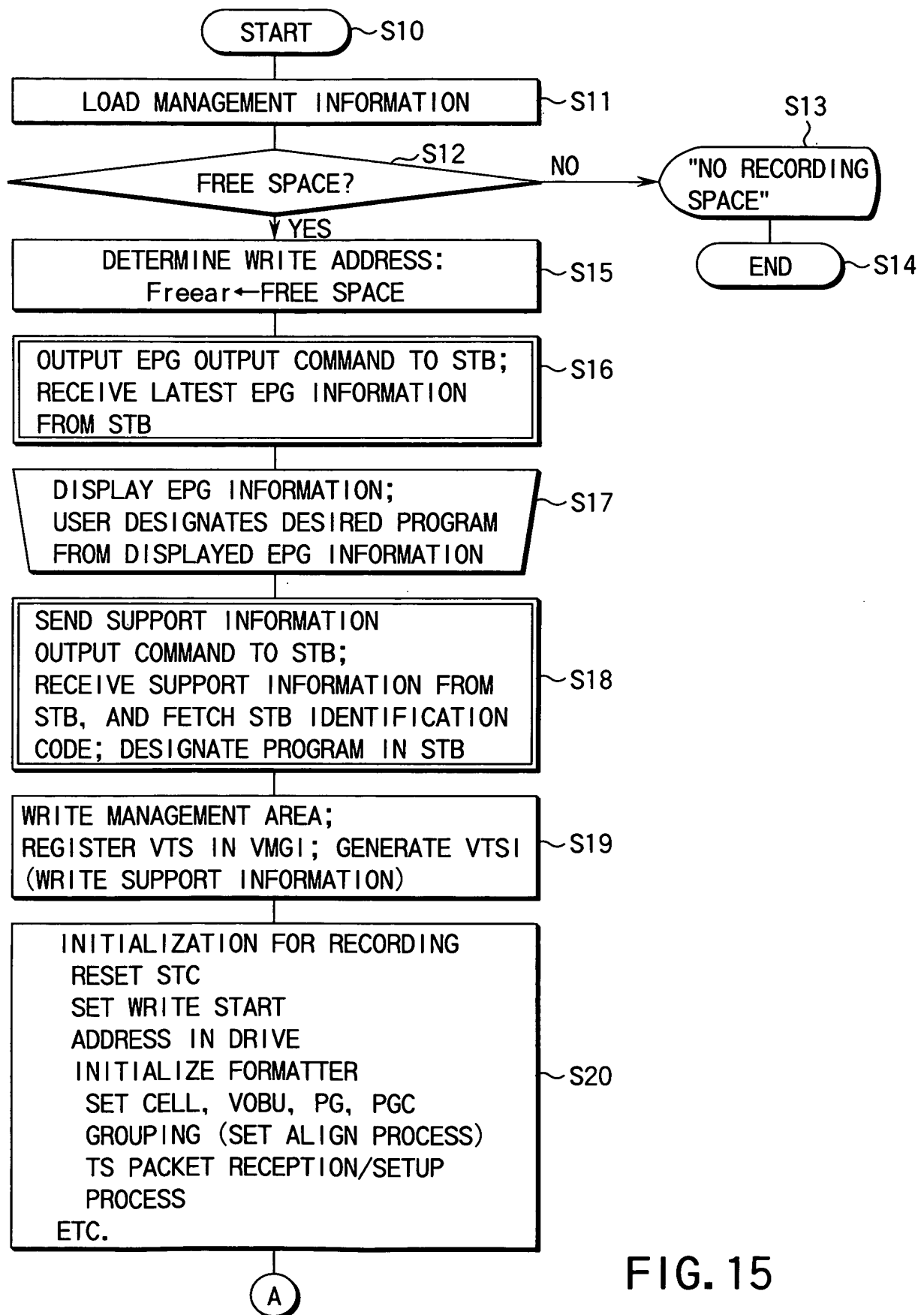


FIG. 15

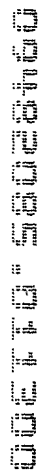


FIG. 16

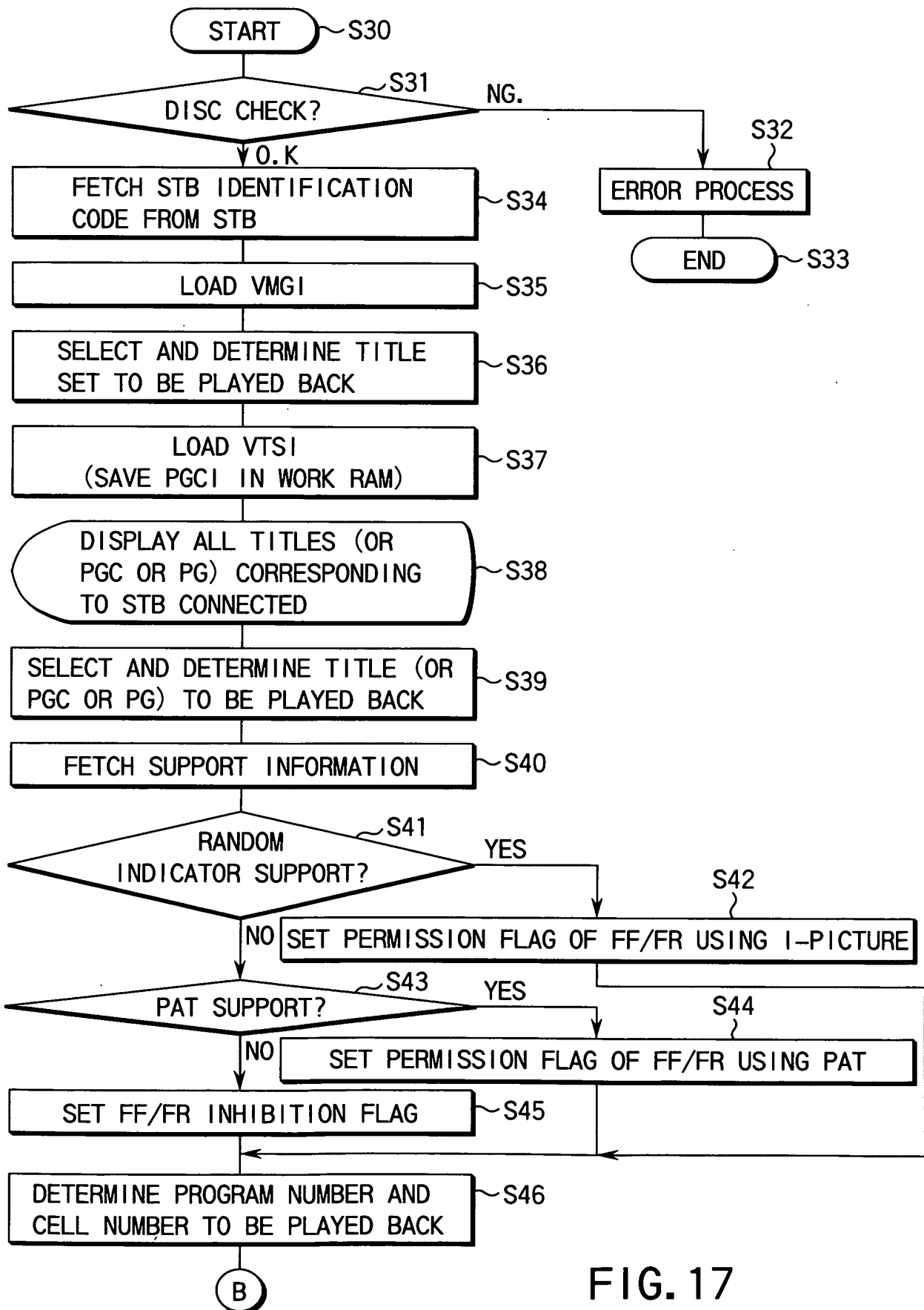


FIG. 17

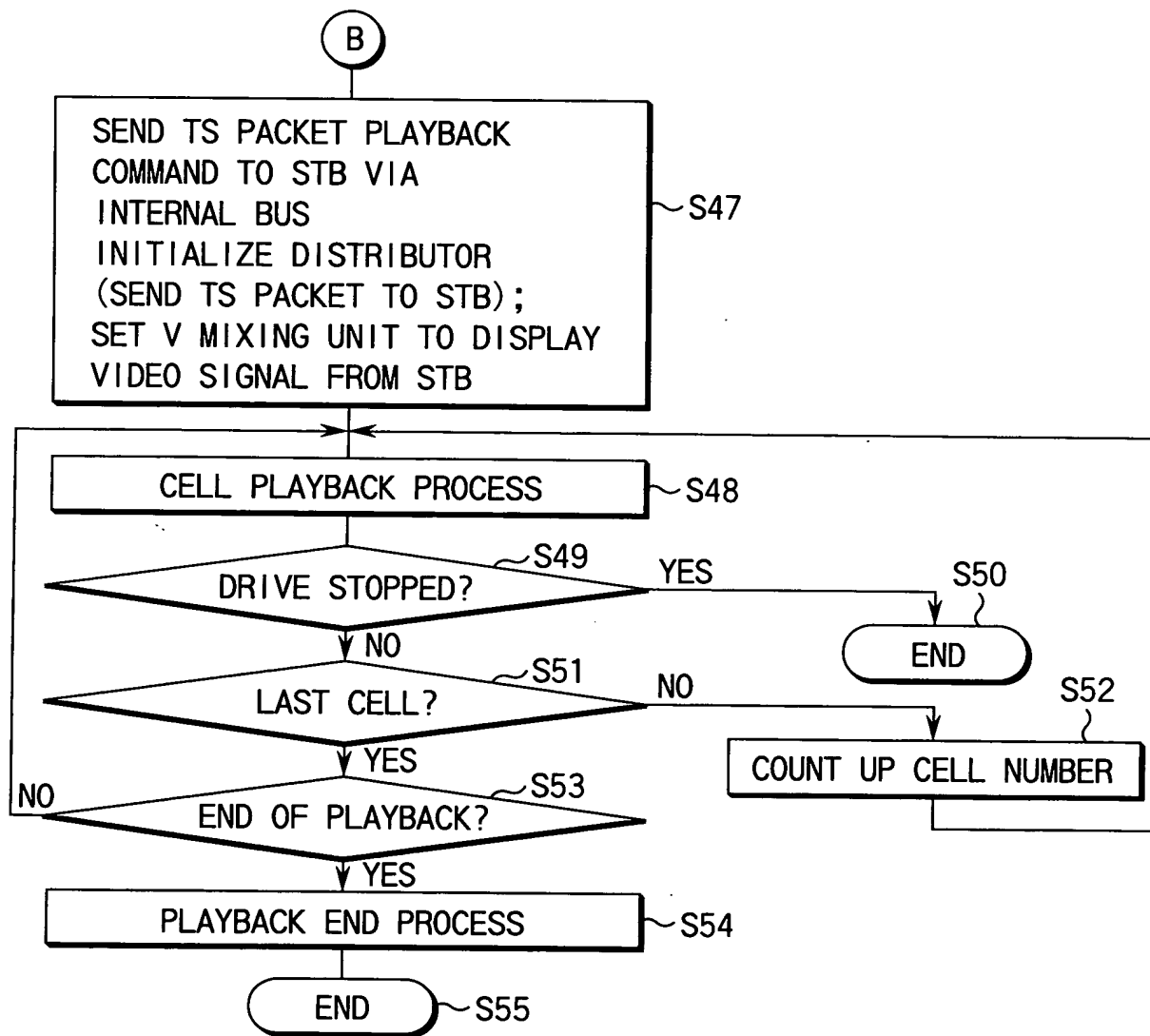
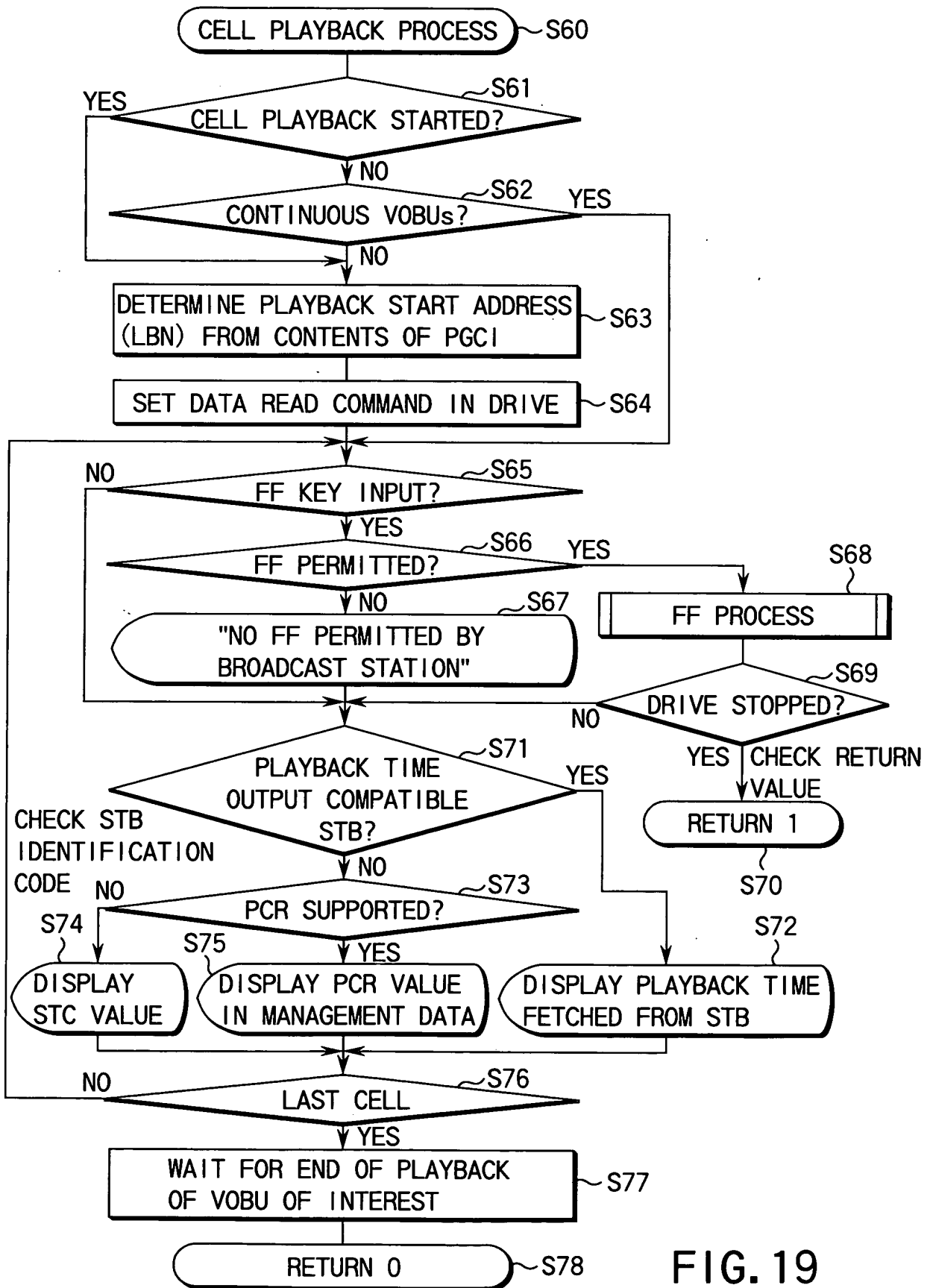


FIG. 18





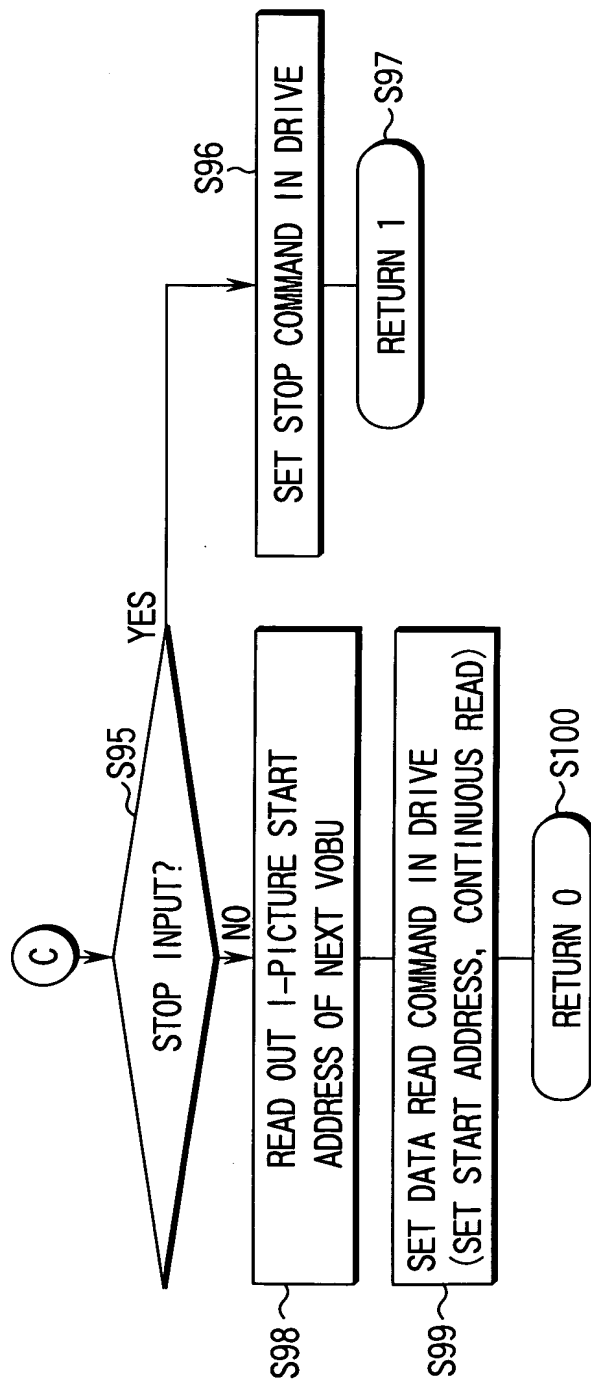


FIG. 21

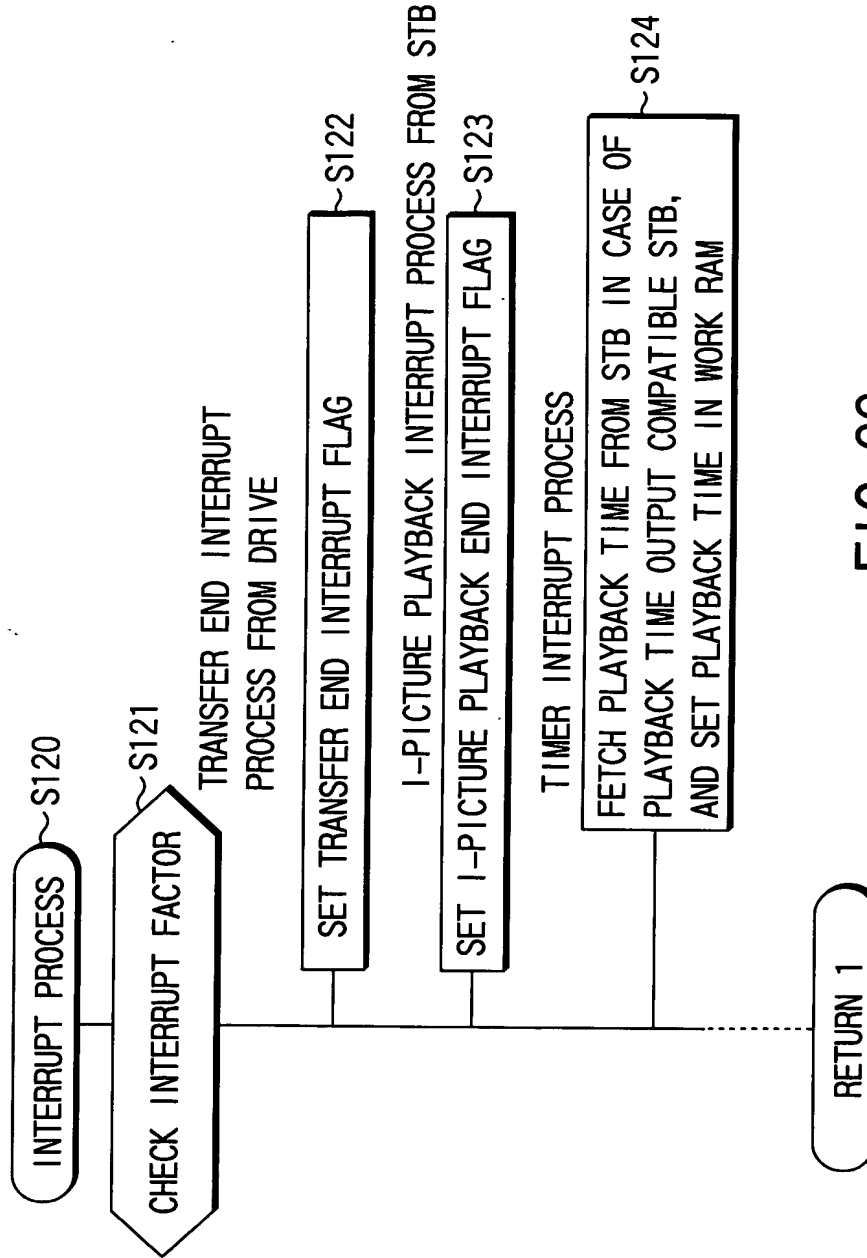


FIG. 22

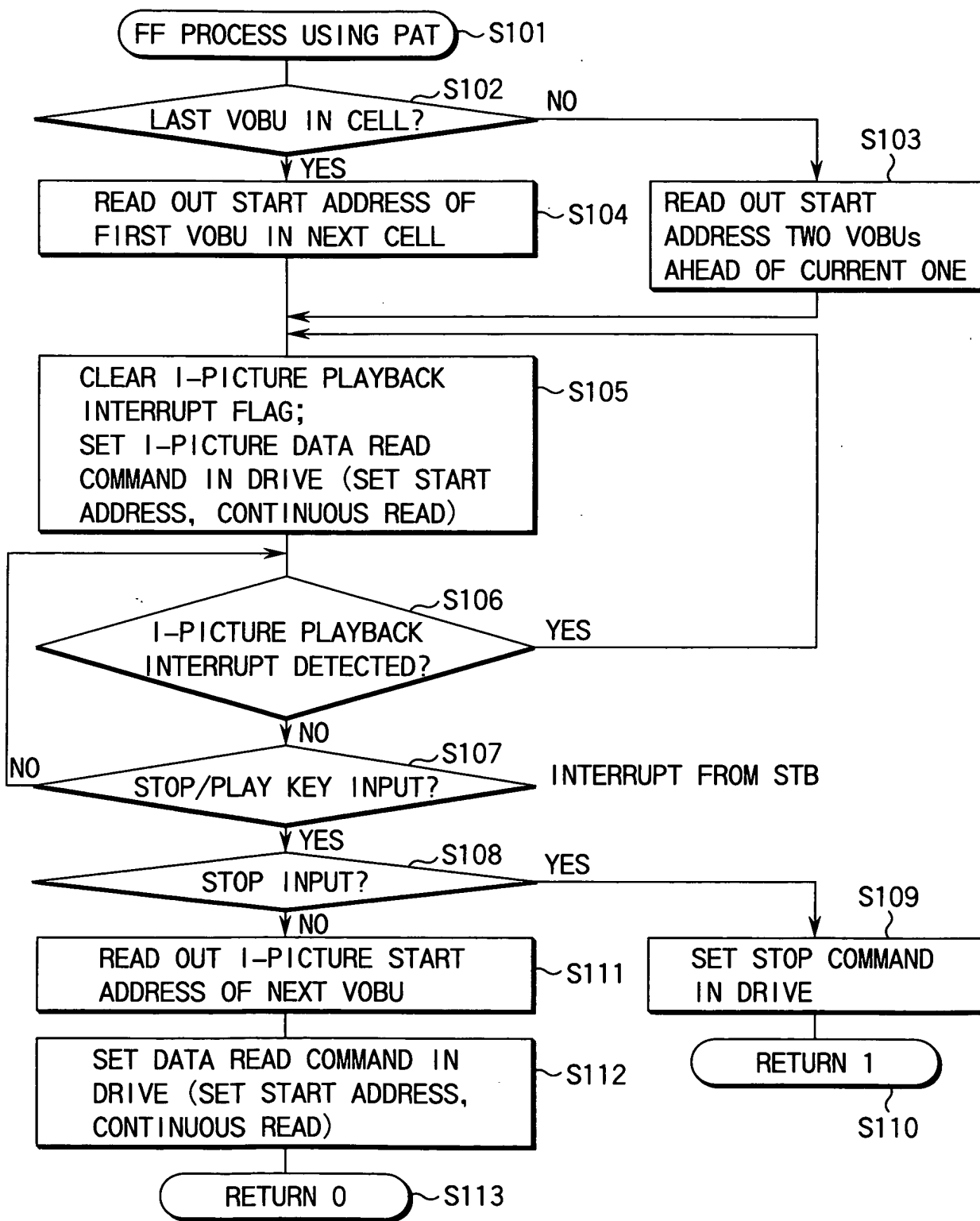


FIG. 23

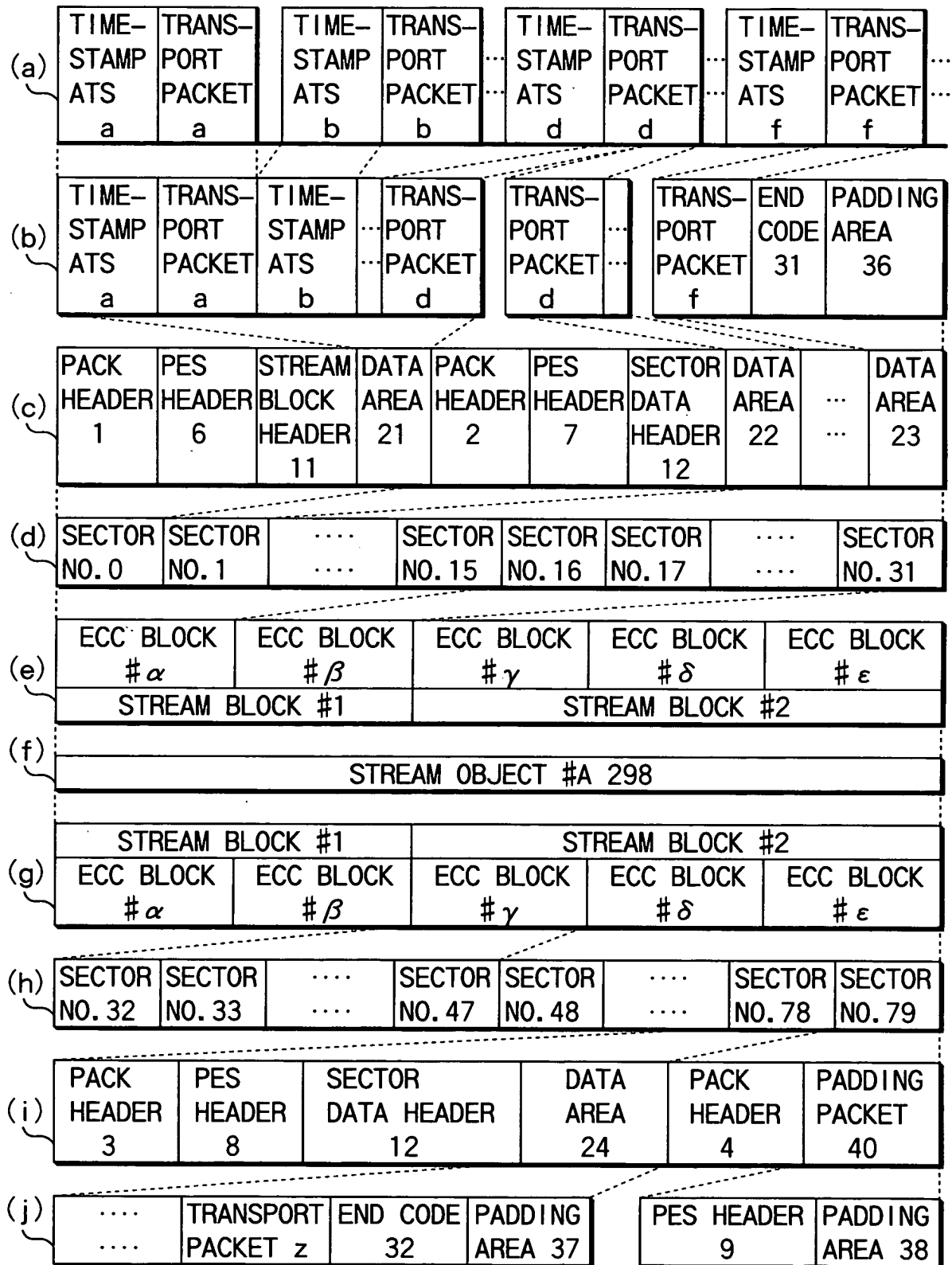


FIG. 24

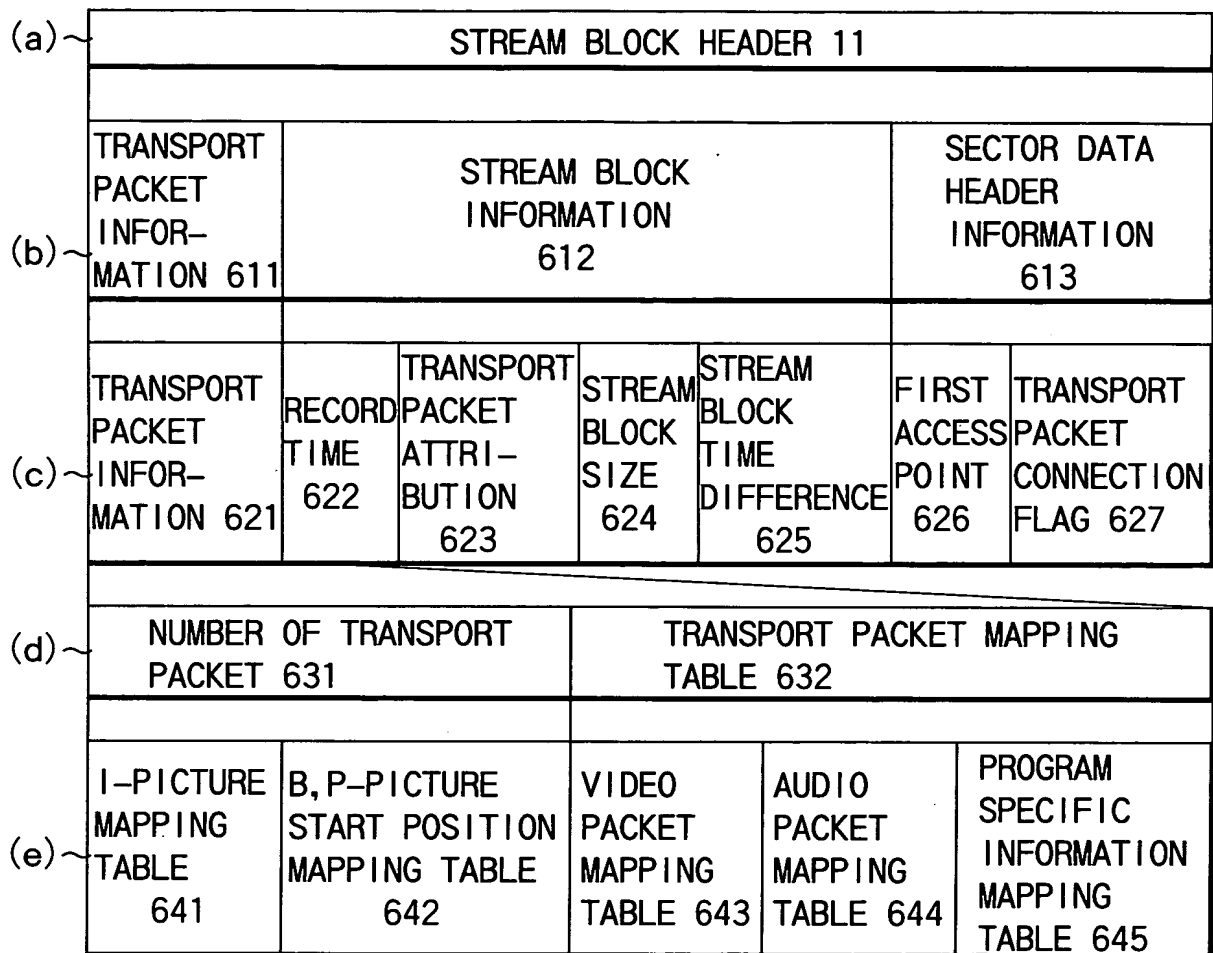


FIG. 25

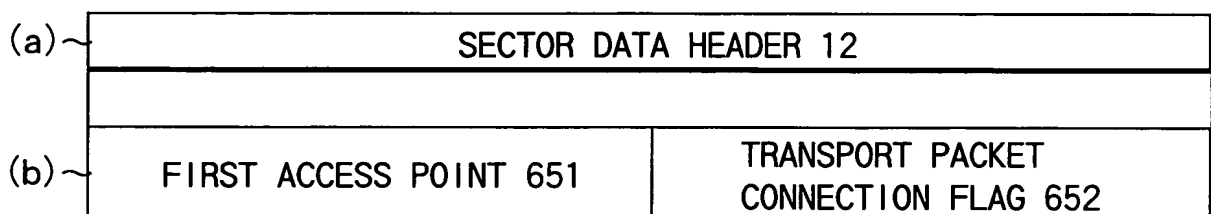


FIG. 26

CONSTRAINTS ON MPEG SPECIFICATIONS FOR SOB

SYSTEM HEADER	SHALL NOT BE INCLUDED
SCR VALUE IN THE FIRST PACK OF A SOB	ANY VALUE
MPEG PROGRAM_END_CODE	SHALL NOT BE INCLUDED
STREAM_ID	SHALL BE EQUAL TO BFh (PRIVATE_STREAM_2) IN ALL PES PACKETS

FIG. 27

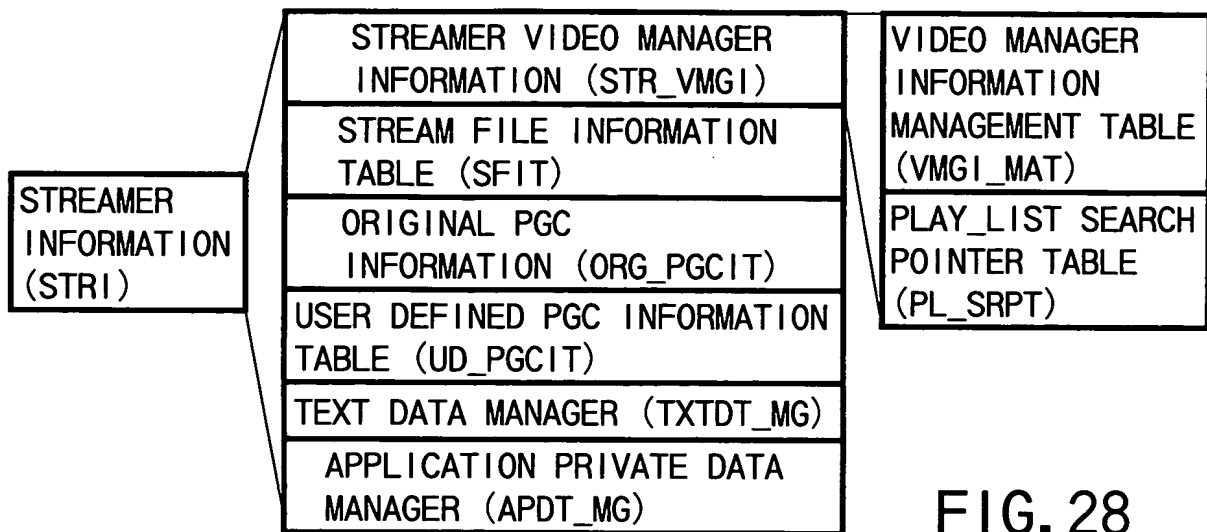


FIG. 28

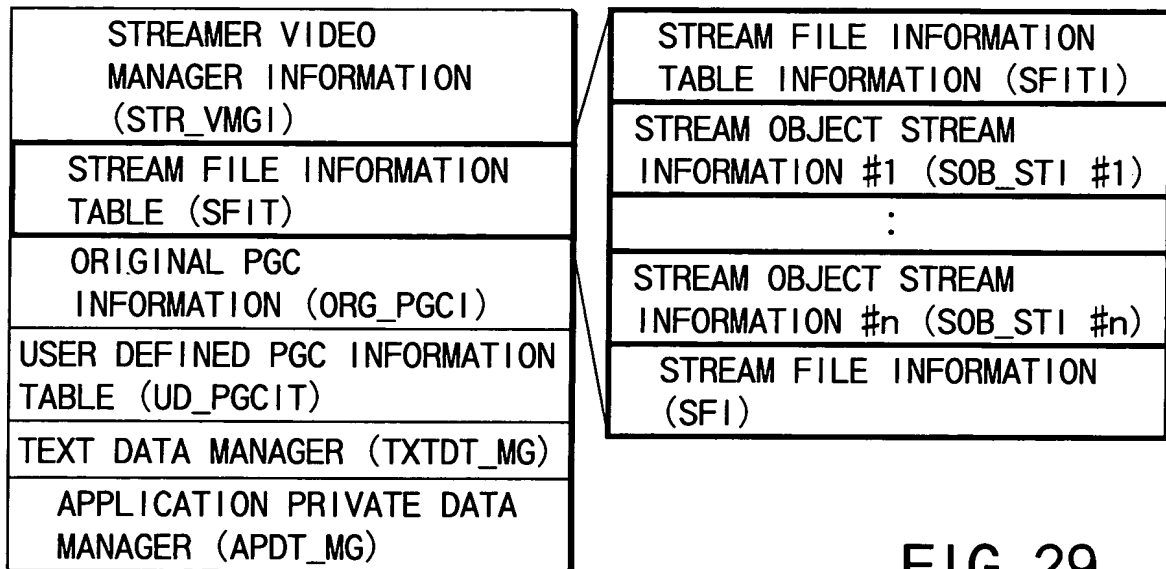


FIG. 29

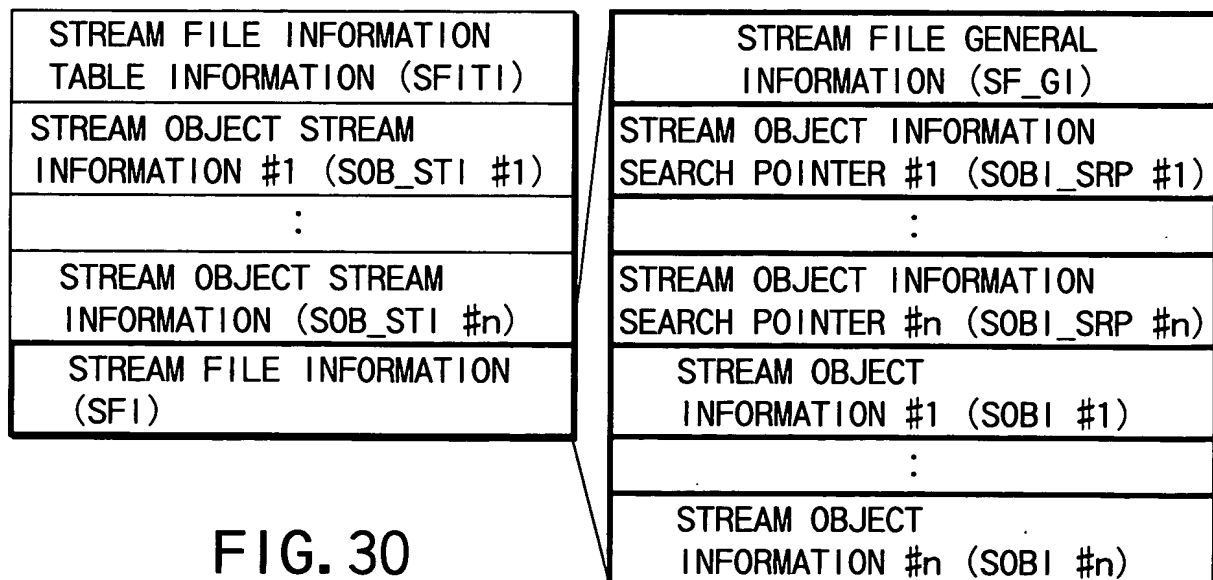


FIG. 30

STREAM FILE GENERAL INFORMATION (SF_GI)

	CONTENTS	NUMBER OF BYTES
(1) SOBI_Ns	NUMBER OF SOBIs	2
(2) SOBU_SIZ	NUMBER OF SECTORS PER SOBU	2
(3) MTU_SHFT	MAPPING TIME UNIT SHIFT	1
(4) RESERVED	RESERVED	1
	TOTAL	6

FIG. 31

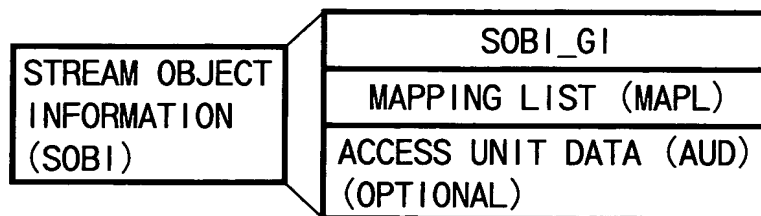
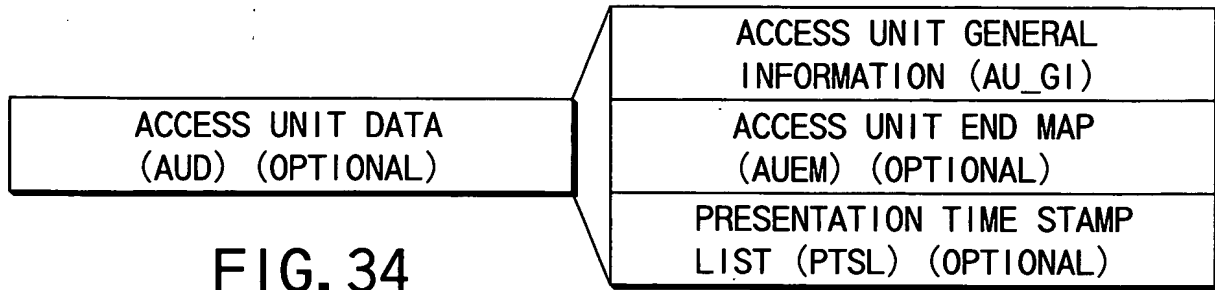


FIG. 32

STREAM OBJECT INFORMATION GENERAL INFORMATION (SOBI_GI)

	CONTENTS	NUMBER OF BYTES
(1) SOB_TY	SOB TYPE	1
(2) SOB_REC_TM	SOB RECORDING TIME	5
(3) SOB_STI_N	SOB STREAM INFORMATION NUMBER	1
(4) AUD_FLAGS	ACCESS UNIT DATA FLAGS	1
(5) SOB_S_APAT	SOB START APAT	6
(6) SOB_E_APAT	SOB END APAT	6
(7) SOB_S_SOBU	FIRST SOBU OF THIS SOB	4
(8) MAPL_ENT_Ns	NUMBER OF MAPPING LIST ENTRIES	4
	TOTAL	28

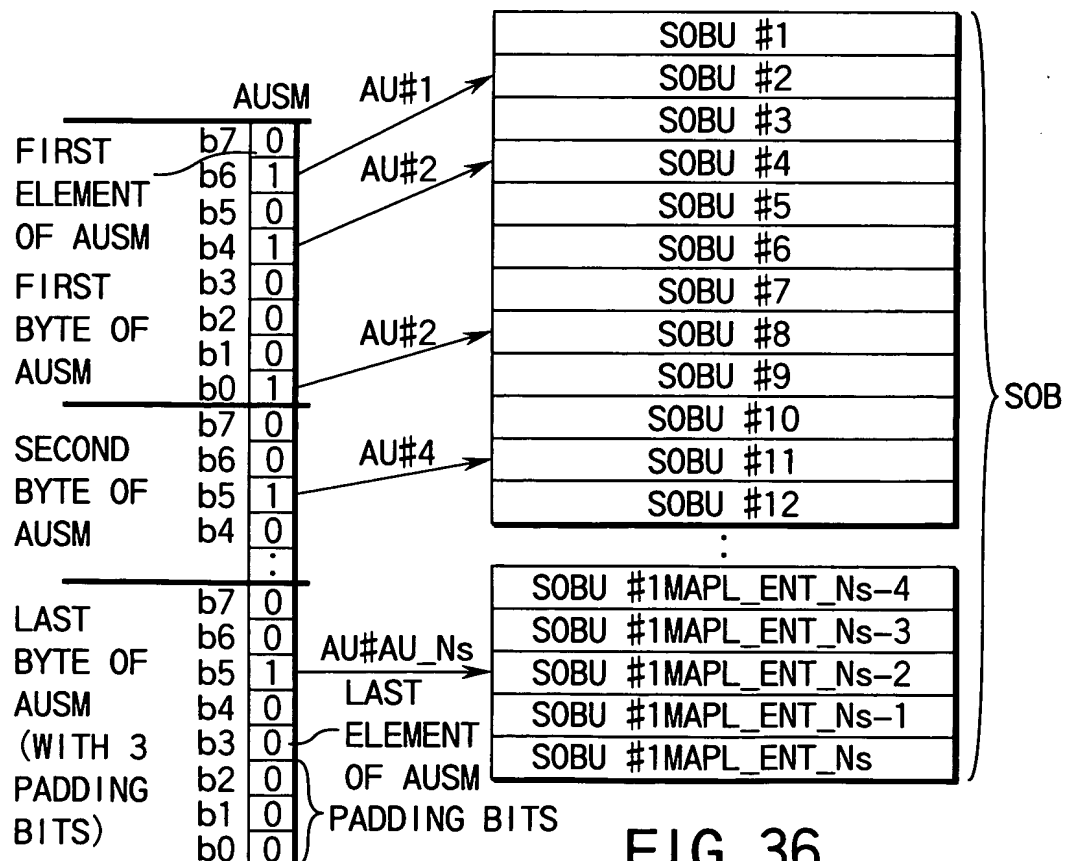
FIG. 33



ACCESS UNIT GENERAL INFORMATION (AU_GI)

	CONTENTS	NUMBER OF BYTES
(1) AU_Ns	NUMBER OF ACCESS UNITS	4
(2) AUSM	ACCESS UNIT START MAP (MAP_ENT_Ns ELEMENTS)	(MAPL_ENT_Ns+7) div 8
	TOTAL	(MAPL_ENT_Ns+7) div 8 + 4

FIG. 35



00000000000000000000000000000000

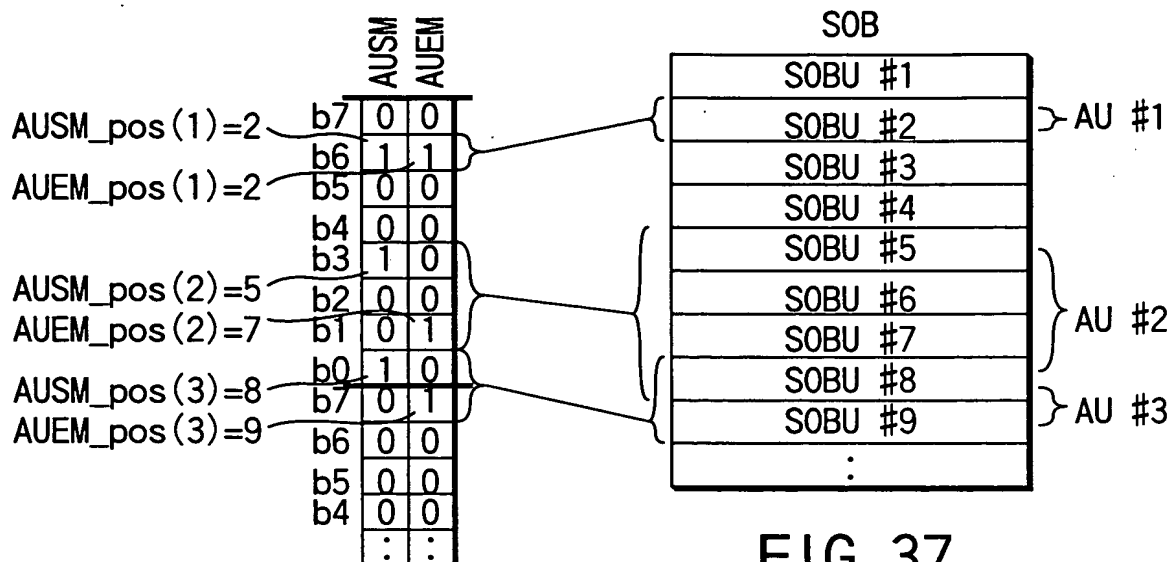
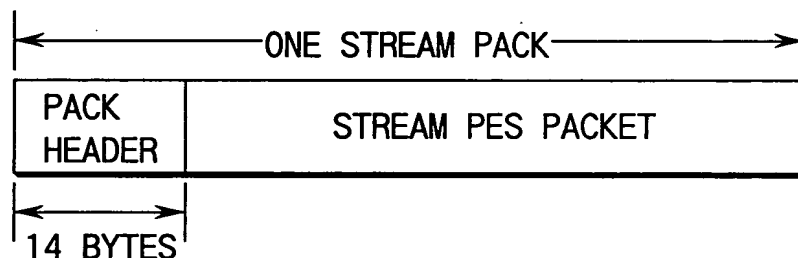


FIG. 37

FIG. 38



STRUCTURE OF THE STREAM DATA AREA WITHIN A STREAM PES PACKET
ONE STREAM PACK (2048B)

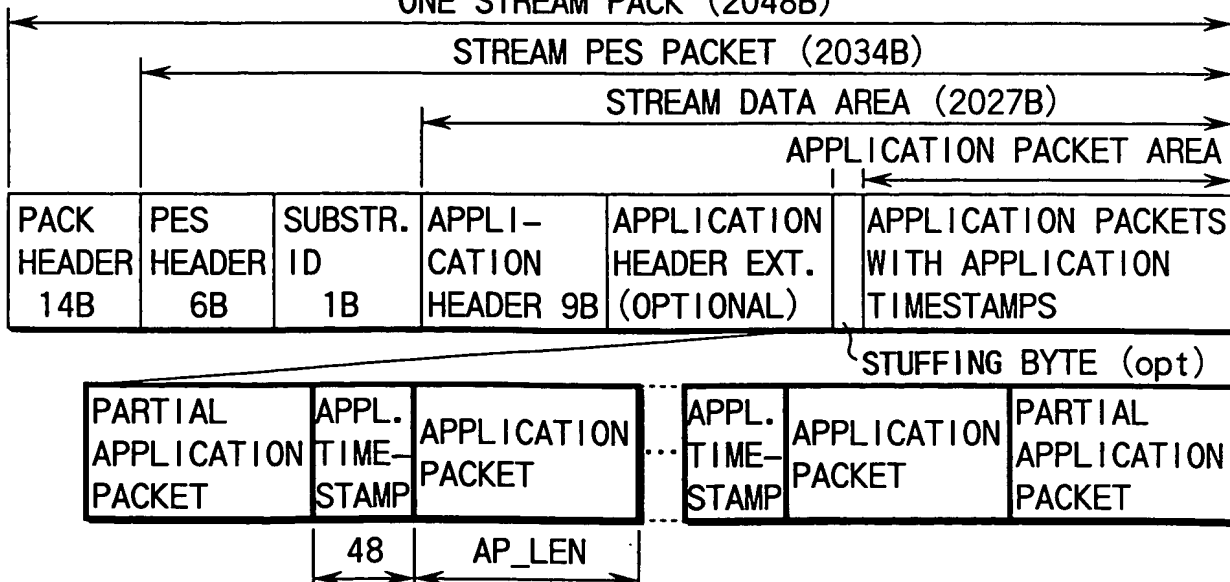


FIG. 39

APPLICATION HEADER

FIELD	NUMBER OF BITS	NUMBER OF BYTES	VALUE	COMMENT
(1) VERSION	8	1	01h	
(2) AP_Ns	8	1		
(3) FIRST_AP_OFFSET	16	2		
(4) EXTENSION_HEADER_INFO	2	1	00b, 10b, 11b	
(5) RESERVED FOR CCI_ESC	1		0b OR 1b	
(6) RESERVED	5		11111b	
(7) SERVICE_ID	16	2		
(8) MAX_BR_LOG2	8	1		
(9) SMO_BS_LOG2	8	1		
	TOTAL	9		

FIG. 40

0034-7513-25